

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/CH 03/00718

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A61B17/28 B25B7/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61B B25B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 89 06939 A (PFIZER HOSPITAL PRODUCT GROUP) 10 August 1989 (1989-08-10) cited in the application	1
A	page 4, line 23-37; figures 6-9	9
X	DE 93 14 581 U (WOLF GMBH RICHARD) 25 November 1993 (1993-11-25)	1, 10
A	claims 1-3; figure 1	9
	page 8, line 8-30	
X	US 4 538 485 A (SAILA TAUNO) 3 September 1985 (1985-09-03)	1
A	claim 1; figures 2, 3	9
	--- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

16 January 2004

Date of mailing of the international search report

23/01/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040. Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Macaire, S

INTERNATIONAL SEARCH REPORT

International Application No.

T/CH 03/00718

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 176 702 A (SMITH KEVIN W ET AL) 5 January 1993 (1993-01-05) abstract; figures 1B, 10, 10E column 10, line 59 - column 11, line 4 column 12, line 44-68 ----	1, 3, 9
A	US 5 373 866 A (WHALEN II JOHN R) 20 December 1994 (1994-12-20) abstract; figures 1, 3, 4 column 5, line 15-24 ----	1, 9
A	DE 20 25 868 A (FA. WALTERS PETERS) 9 December 1971 (1971-12-09) page 1, paragraph 1; figure 1 page 3 ----	1, 2, 5, 6, 9
A	DE 28 49 009 A (LANDANGER LOUIS) 28 June 1979 (1979-06-28) column 6, paragraph 3 - column 7, paragraph 1; claim 1; figures 1, 2 ----	1, 3, 9
A	DE 100 49 379 A (STORZ MARTIN) 11 April 2002 (2002-04-11) abstract; figures 1, 3 ----	1, 2, 5, 6, 9
A	DE 242 254 C (LOUIS & H. LOEWENSTEIN) 3 January 1912 (1912-01-03) column 1, line 1-17; figures 1, 2 ----	2, 5, 9
A	DE 91 09 113 U (KOTHE) 6 February 1992 (1992-02-06) page 6, paragraph 2; figures 1, 2 -----	1, 3, 9

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/CH 03/00718

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 8906939	A	10-08-1989	US 4896661 A AT 105697 T CA 1302827 C DE 68915436 D1 DE 68915436 T2 EP 0393151 A1 ES 2017118 A6 WO 8906939 A1	30-01-1990 15-06-1994 09-06-1992 23-06-1994 01-09-1994 24-10-1990 01-01-1991 10-08-1989
DE 9314581	U	25-11-1993	DE 9314581 U1	25-11-1993
US 4538485	A	03-09-1985	NONE	
US 5176702	A	05-01-1993	US 5192298 A US 5171258 A AT 162382 T AU 655528 B2 AU 3283193 A AU 3605893 A CA 2088869 A1 DE 69316401 D1 DE 69316401 T2 EP 0555103 A1 IL 104591 A JP 2573781 B2 JP 6014874 A WO 9315673 A1 AU 647349 B2 AU 1404492 A CA 2065089 C DE 69222216 D1 DE 69222216 T2 EP 0507622 A1 IL 101493 A JP 2573771 B2 JP 5091974 A US 5507297 A US 5443480 A US 5396900 A US 5395386 A US 5392789 A US 5439478 A US 6041679 A US 5203785 A US 5258004 A US 5215101 A US 5269804 A US 5170800 A US 5174300 A US 5331971 A US 5241968 A US 5320636 A US 5293878 A AU 655327 B2 AU 2715292 A CA 2080994 A1 EP 0542437 A1 IL 103484 A	09-03-1993 15-12-1992 15-02-1998 22-12-1994 12-08-1993 03-09-1993 07-08-1993 26-02-1998 27-08-1998 11-08-1993 14-11-1996 22-01-1997 25-01-1994 19-08-1993 17-03-1994 08-10-1992 07-02-1995 23-10-1997 19-03-1998 07-10-1992 31-10-1995 22-01-1997 16-04-1993 16-04-1996 22-08-1995 14-03-1995 07-03-1995 28-02-1995 08-08-1995 28-03-2000 20-04-1993 02-11-1993 01-06-1993 14-12-1993 15-12-1992 29-12-1992 26-07-1994 07-09-1993 14-06-1994 15-03-1994 15-12-1994 22-04-1993 22-04-1993 19-05-1993 08-12-1995

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

T/CH 03/00718

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5176702	A		JP 2573777 B2 JP 6054802 A	22-01-1997 01-03-1994
US 5373866	A	20-12-1994	NONE	
DE 2025868	A	09-12-1971	DE 2025868 A1	09-12-1971
DE 2849009	A	28-06-1979	FR 2411601 A1 DE 2849009 A1	13-07-1979 28-06-1979
DE 10049379	A	11-04-2002	DE 10049379 A1	11-04-2002
DE 242254	C		NONE	
DE 9109113	U	19-12-1991	DE 9109113 U1 EP 0513471 A2 US 5290309 A	19-12-1991 19-11-1992 01-03-1994